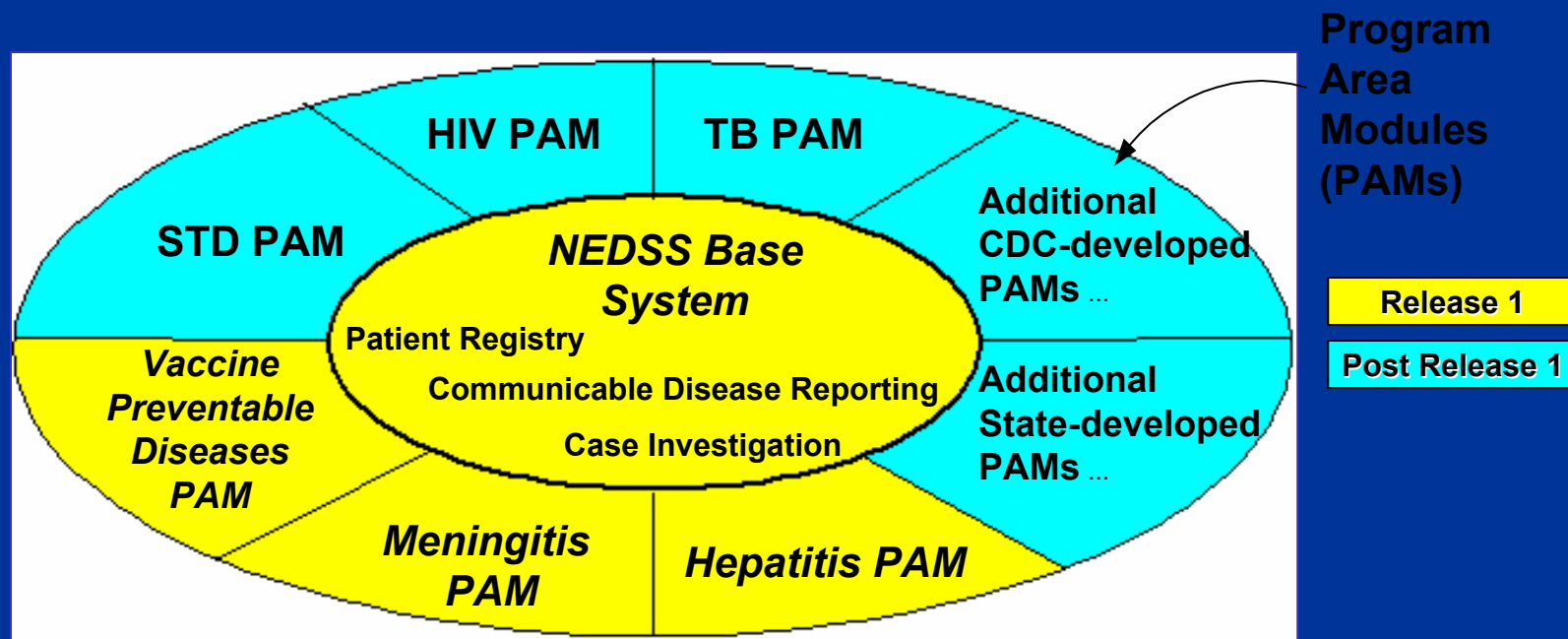# NEDSS Development Update

Agenda

1. Release 1.02 Scope
2. Release 1.1 Scope/Status
3. Development Metrics
4. Future Release Candidates
5. Process for Incorporating input into NBS
6. Q&A

NBS Release 1.0 Scope

NBS Release 1.02 Functionality

PAM Forms
- BMIRD
- Hepatitis
- NIP

Generic Disease Forms

Patient Registry

Health Care Worker Identification

Health Care Provider Identification

Laboratory Identification

ELR

NNDM

Vaccinations

Morbidity Reports

Access control by Program Area and Jurisdiction

AVR

Configuration and Administration

NBS Release 1.1 Functionality

- Enhanced
  - Data Entry
  - NND Messaging
  - Investigation Forms
- Data De-Duplication
- Point-in-Time Demographics
- Treatment Management
- Release Upgrade
- Switch from SilverStream to WebLogic Application Server
- IE 6.0 Certification

R1.1 Data Entry Enhancements

- Reduce and streamline the number of fields required for entry of manual lab
- Enhance the workflow for manual lab and morbidity report entry
- Provide manual lab and morbidity report entry with or without NBS patient registry access
- Modify UI for ELR to display appropriate data received

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R1.1 Data De-duplication Highlights

- Batch program to identify likely duplicate patients for manual or automatic merging

- Manual interactive Patient Merge functionality for 2 or more match candidates

- Queue for manual resolution of potential matches

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R1.1 Point-In-Time Demographics

- Provide for capture of distinct demographic data for each specific public health event

- Change in a patient's demographics in one part of the system does not over-write the patient's demographics for previous events

- Separate demographics maintenance screens for patients, practitioners, public health workers, and organizations

R1.1 Treatment Highlights

- Associate treatment with either a morbidity report or an investigation.

- Treatment data includes date, ordering person, notes, treatment specification attributes, dosage, administration route, frequency, and drug.
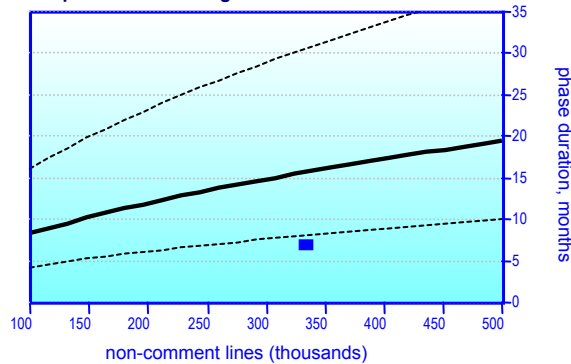
Release 1.1 Status

NBS Release 1.1 Project Schedule
7 Oct 02 - 31 July 03
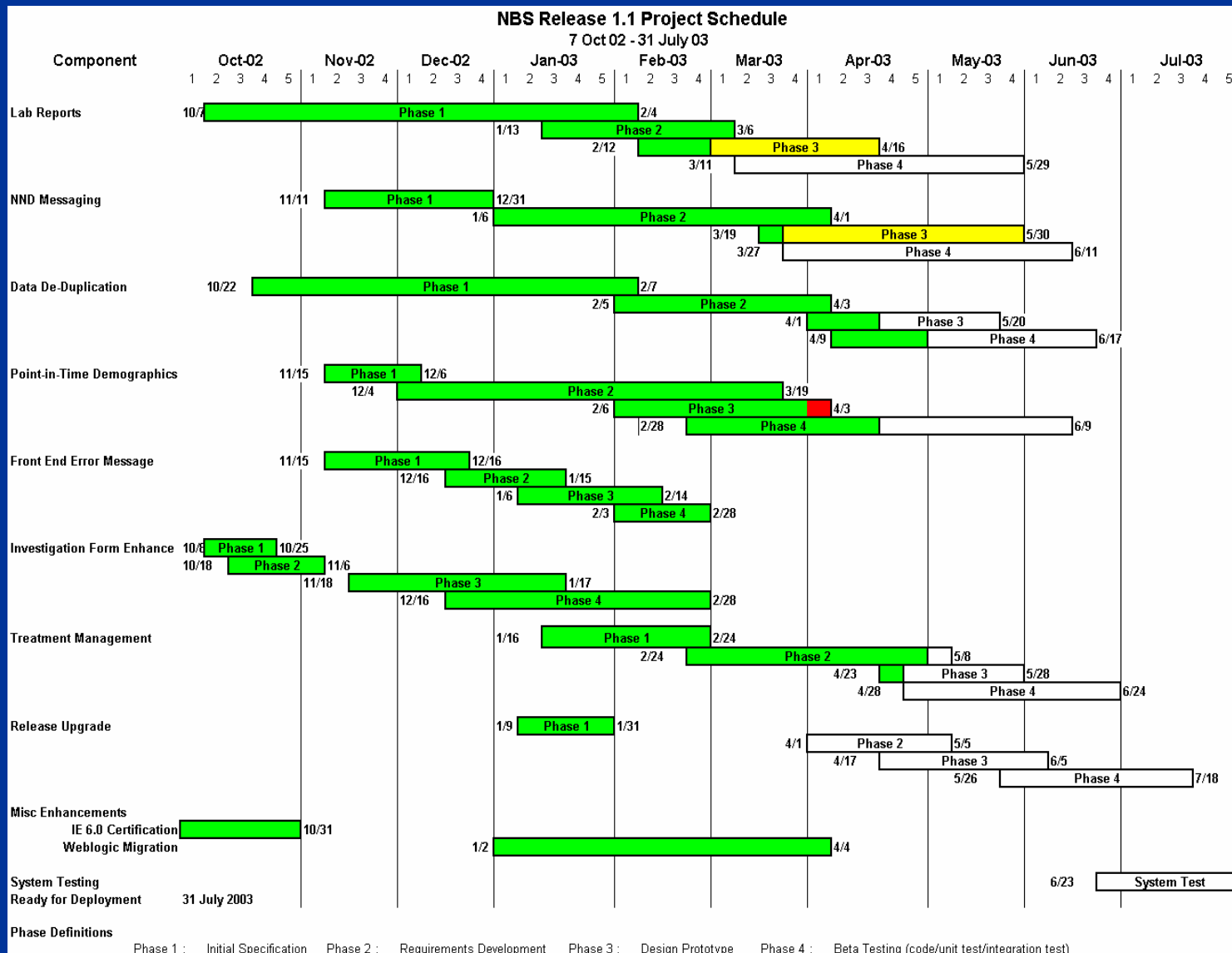
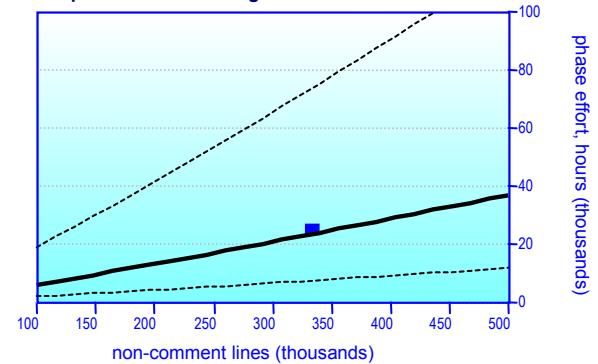# NEDSS Development Metrics

Comparison of NBS Productivity to Industry Average
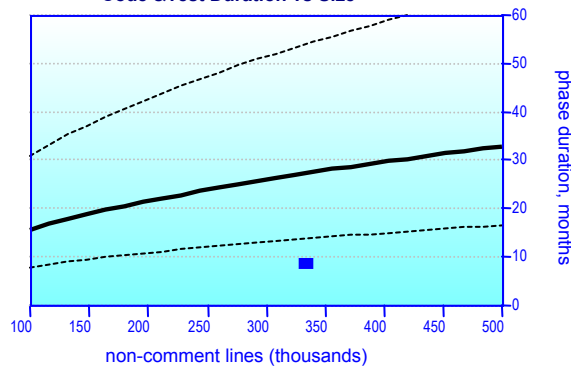
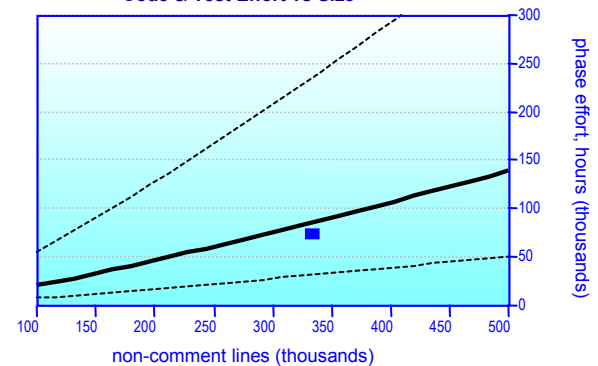**Requirements & Design Duration vs Size**

Requirements and Design Effort vs. Size

Code &Test Duration vs Size

Code & Test Effort vs Size

Current Solution — Project: NBS Rel 1 0731 release | Historical Projects | QSM 1999 Scientific | Avg. Line Style | 1 Sigma Line Style

Future Release Plans

NBS Release Plan

Release 1.1

Enhanced
- - Data Entry
- - Messaging
- - Investigation

Data De-Duplication

Treatment Management

IE 6.0 Certification

Weblogic Migration

Point-in-Time Demographics

Release 1.2+

STD PAM

Enhanced
- -Security
- -Messaging
- -Data De-Duplication

Data Migration

SRT Versioning

SRT Filtering, Defaults

PAM Architecture

Release 2.0+

HIV PAM

NNDM HL7 V3 (COTS Based)

Outbreak (including Environmental Emergency)

Outbreak Detection

Case Determination

Contact Tracing

Intervention

Syndromic Surveillance

Alerts

Non-Patient Entity (living/non-living)

Production Support

Release 1.0.1 and 1.0.2

Release 1.1.1 Reporting LDF

Maintenance Releases

2002

Release 1.0

2003

2004

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NBS Future Release Plans – R1.1.1

- Reporting Enhancements
  - More data in NBS Reporting Database

- Locally Defined Fields
  - "A field defined locally by the state and configured to appear on an existing NBS screen"
  - Show how an NBS administrator would configure LDFs on NBS Screens
  - Show how end users would interact with LDFs on NBS Screens

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NBS Future Release Plans – R1.2 +

- Data Migration
- Data De-duplication (COTS)
- SRT Versioning & Maintenance
- SRT Filtering & Defaults
- Messaging Enhancements
- Facility & Sub-Jurisdiction security
- Other High Priority Enhancement Requests
- STD PAM
- PAM Architecture

NBS Future Release Plans – R1.2 +

1. Data Migration

   - NETSS to NEDSS
   - National Databases & Registries
   - STD*MIS to NEDSS STD PAM

2. Data De-duplication (COTS)

   - More sophisticated entity matching
   - Support for Event de-duplication
   - Bulk de-duplication

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NBS Future Release Plans – R1.2 +

3. SRT Versioning & Maintenance

- National SRT Repository management

- Distribution & update methodology

- NBS support for SRT Versioning

4. SRT Filtering, Ordering, & Defaults

- Context-based NBS drop-down filtering

  - By Program, By Activity, etc…

- Most recently used ordering

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NBS Future Release Plans – R1.2 +

5. NND Messaging Enhancements

- Message status management & reporting
- Triggered automatic message sending

6. Facility & Sub-Jurisdiction security

- Access to data entered by non-Public Health facilities (clinical, lab, etc…)
- Support sub-jurisdiction hierarchies
- Security Administration at Program level

NBS Future Release Plans – R1.2 +

7. Other High Priority Enhancements

    - 40-50 enhancements under consideration

8. STD PAM

    - Contact Tracking & Management (Initial)

    - Investigation Management

    - STD*MIS Replacement

9. PAM Architecture

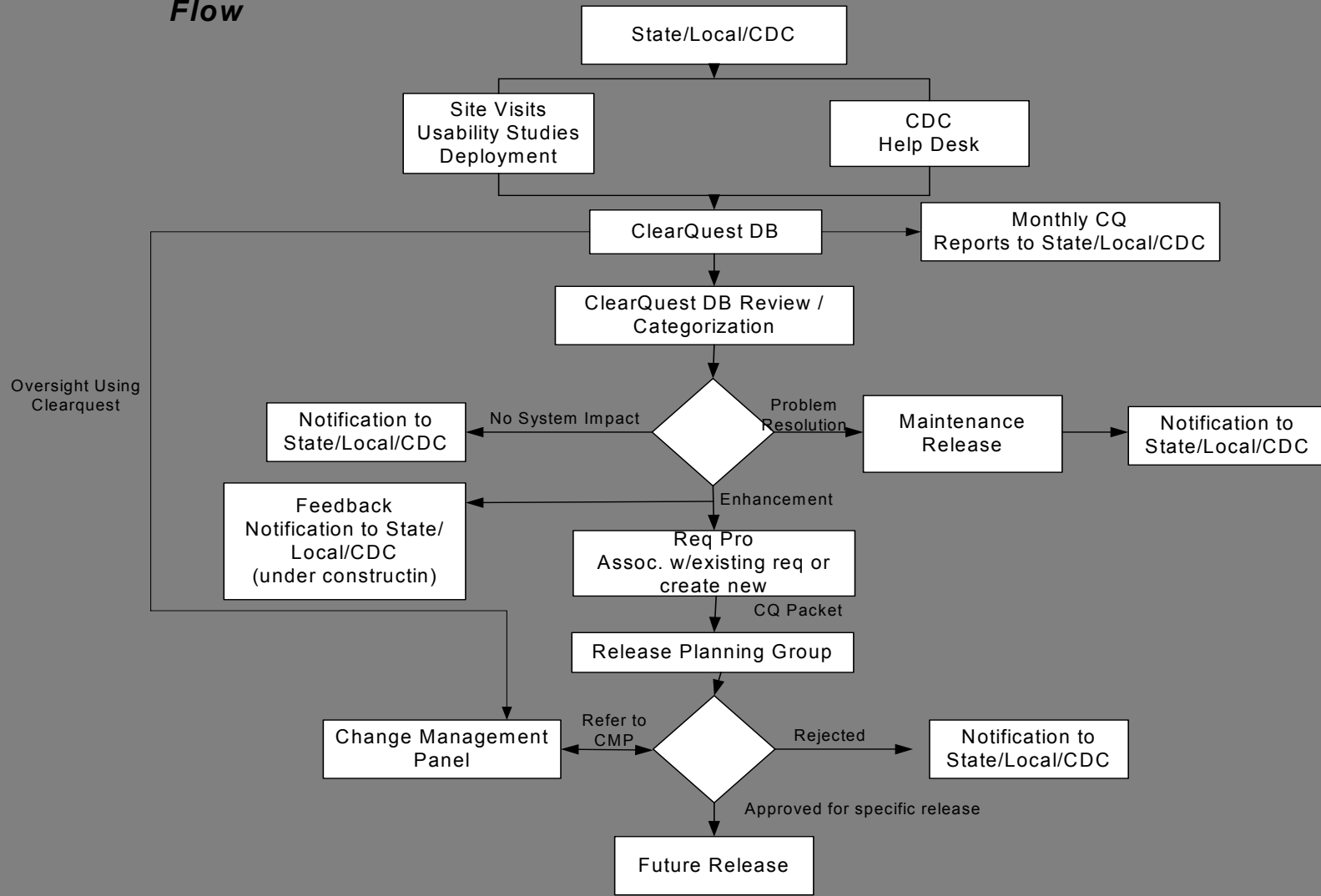   - Support for independent PAM development

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NBS Future Release Plans – R2.0 +

- HIV PAM
- NNDM HL7 v3 (COTS tool based)
- Outbreak & Environmental Emergency
- Automated Outbreak Detection
- Automated Case Determination
- Syndromic Surveillance
- Intervention & Follow-up
- Contact Tracing
- Alerts
- Non-Human Living Subjects
- Other High Priority Enhancements

Release Input Process

Process for Incorporating Input into NBS

NEDSS Enhancement Process Flow

State/Local/CDC

Site Visits
Usability Studies
Deployment

CDC
Help Desk

ClearQuest DB

Monthly CQ
Reports to State/Local/CDC

ClearQuest DB Review /
Categorization

Oversight Using
Clearquest

No System Impact

Problem Resolution

Notification to
State/Local/CDC

Maintenance
Release

Notification to
State/Local/CDC

Enhancement

Feedback
Notification to State/
Local/CDC
(under constructin)

Req Pro
Assoc. w/existing req or
create new

CQ Packet

Release Planning Group

Refer to
CMP

Rejected

Change Management
Panel

Notification to
State/Local/CDC

Approved for specific release

Future Release

Process for Incorporating Input into NBS

- Feedback received from State and local health department users and public health partners
  - Demos
  - Deployment Activities
  - NEDSS Help Desk calls (Peregrine)
  - Site Visits
  - Usability Studies
- Issues tracked in a database (ClearQuest) and priorities established
- Issues classified as Problems or Enhancement Requests

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Process for Incorporating Input into NBS

- Release Planning Group recommends assignment of specific problem resolutions and enhancements to a particular NBS Release

- Change Management Panel reviews and approves Release content

- Design feedback is solicited from the states during the development process
  - Onsite design reviews
  - Conference Calls
  - State Deployment meetings

Questions?

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